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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/959,149	10/28/1997	RODNEY LIMPRECHT	3382-47280	4269
7:	590 12/20/2002			
•	SPARKMAN CAM	EXAM	EXAMINER	
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PORTLAND, OR 972042988			ART UNIT	PAPER NUMBER
			2126	25
			DATE MAILED: 12/20/2002	, 25

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No. 08/959,149

Applicant(s)

Limprecht, et al

Examiner

S. Lao

Art Unit 2126



	The MAILING DATE of this communication appears on the cover	er she	et with	the correspondence address			
	for Reply						
THE N	ORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRMAILING DATE OF THIS COMMUNICATION.	_					
 Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. 							
- If the p - If NO p - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within the statutory minoriod for reply is specified above, the maximum statutory period will apply and will expire Stot reply within the set or extended period for reply will, by statute, cause the application to ply received by the Office later than three months after the mailing date of this communical patent term adjustment. See 37 CFR 1.704(b).	IX (6) IX becom	MONTHS 1	from the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status							
1) 💢	Responsive to communication(s) filed on Sep 25, 2002						
2a) 🗌	☐ This action is FINAL . 2b) ☑ This action is non-final.						
3) 🗆	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposit	tion of Claims						
4) 💢	Claim(s) 1-5 and 7-28			is/are pending in the application.			
4	a) Of the above, claim(s)			is/are withdrawn from consideration.			
5) 💢	Claim(s) 1-5, 7-12, 15-17, and 22-28			is/are allowed.			
6) X	Claim(s) 13 and 18-21			is/are rejected.			
7) 💢	Claim(s) <u>14</u>			is/are objected to.			
8) 🗆	Claims	are	subject	t to restriction and/or election requirement.			
Applica	tion Papers						
9) 🗆	The specification is objected to by the Examiner.						
10)							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	The proposed drawing correction filed on						
	If approved, corrected drawings are required in reply to this Office action.						
12)	12) The oath or declaration is objected to by the Examiner.						
Priority	under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) 🗆 All b) 🗀 Some* c) 🗀 None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
*See the attached detailed Office action for a list of the certified copies not received.							
14) \square Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
a) \square The translation of the foreign language provisional application has been received.							
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachm	_						
	<u> </u>			0-413) Peper No(s)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Vinformation Disclosure Statement(s) (PTO-1449) Pager Note:							
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 24 6) Other:							

DETAILED ACTION

- 1. Claims 1-5, 7-28 are pending. This action is in response to the amendment filed 9/25/2002. Applicant has amended claim 18 and canceled claim 6.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 13, 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over The Common Object Request Broker: Architecture and Specification CORBA (Revision 2.0) in view of Steinman ("Incremental State Saving in SPEEDS Using C++") and Coskum (U S Pat. 5,764,958)

As to claim 21, CORBA teaches (chapter 4, pages 12-16) server applications (servers, applications), executing (invoke) an application component (object) under control of an operating service (ORB), the application component having a state (context) and function code (method) for performing work responsive to a call (invoke method) from a client (client), destroying the state by the operating service (delete context object by CORBA::CTX_DELETE()). It is noted that a destroyed state in CORBA is not persistent.

CORBA does not teach (1) the step of maintaining, (2) destroying is in response to an indication from application component without action by the client.

As to (1), Steinman teaches (SPEEDS system) maintaining an object state (v1) in main memory between method invocations (between events/messages/method calls, by delta exchange method), see sections 3, 4. Given the teaching of Steinman, it would have been obvious to maintain an object state in main memory between method invocations. One of ordinary skill in the art would have been motivated to apply the teaching of Steinman to CORBA because it further improves the resource efficiency by reducing the overhead of state savings (Steinman, page 695, left col., last para.). It is noted that Steinman maintains object state without requiring an indication that work is complete.

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As to (2), Coskum teaches destruction of a state of an application component (delete teacher object) is controlled by the server without waiting for consent from the client (when the call to server function returns). See col. 2, lines 14-19; col. 4, lines 31-36. Given the teaching of Coskum, it would have been obvious to destroy the state of the application component in response to an indication from application component but without action by the client. One of ordinary skill in the art would have been motivated to apply the teaching of Coskum to CORBA because it permits dynamic introduction of objects (Coskum, col. 1, lines 56-58) which is a primary purpose of CORBA.

As to claims 18 and 13, note discussion of claim 21 and note the equivalence of discarding / destroying, and before receiving / without action by the client. CORBA further teaches (chapter 4, pages 12-16) system service (ORB) for creating and destroying. CORBA teaches (chapter 2, page 9, section 2.1.11) instance creation service (object activation), client request (request), returning a reference (generate object reference). Typically in CORBA, a client calls a object / component function indirectly by calling a stub / object adapter to initiate work (invoke object) via the run-time/system service (ORB, including object adapter) and using the reference. CORBA further teaches encapsulating function code (object method) and a processing state (context) for the work in a component (context object), providing a reference (object reference) through an operating service (CORBA) for a client program to call the function code of the component to initiate processing (invoke method) (see discussion of claim 21 with respect to CORBA).

Regarding destroying processing state responsive to indication from the application without action from the client, this is met by Coskum, as discussed for claim 21.

As to claims 19-20, holding a reference and releasing a reference are part of the conventional object creation and destruction. Further, CORBA as modified teaches (Steinman) resetting the state (restore state by calling exchange again, section 4). The factory mechanism of CORBA produces a component/object instance and its pointer. When an object is reused, its state is typically reset/reinitialized.

4. Claims 1-5, 7-12, 15-17 and 22-28 are allowed.

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5. Claim 14 is objected to as being dependent upon respective rejected base claims,

but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

6. Applicant's arguments filed 9/25/2002 have been considered but are moot in view

of the new ground(s) of rejection.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sue Lao whose telephone number is (703) 305-9657. A

voice mail service is also available at this number. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 746-7238 for After

Final communications, (703) 746-7239 for Official communications and (703) 746-7240 for

Non-Official/Draft communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone number is (703)

305-9600.

Sue Lao

Sue Las

December 13, 2002